

SN. 09/908,970

ATTORNEY DOCKET NO. CANO:032

IN THE CLAIMS

*The status of the claims as presently amended is as follows:*

1. *(Currently Amended)* An original conveying apparatus comprising:

conveying means for conveying an original to an image reading section of an image forming apparatus;

original detecting means comprising a light-emitting section, and a light-receiving section;

adjustment means for adjusting a light amount from said light-emitting section;

volatile storage means which permits electrical writing and erasure, for storing a correction value of the light amount adjusted by said adjustment means;

nonvolatile storage means which permits electrical writing and erasure, for storing the correction value; and

writing means for carrying out writing of the correction value only to said volatile storage means and not to said nonvolatile storage means when the correction value has not changed by at least a predetermined amount relative to a correction value before adjustment by said adjustment means,

wherein adjustment of the light amount from said light-emitting section by said adjustment means is carried out after a predetermined time period has passed after the original conveying apparatus has moved into a standby mode.

2. *(Currently Amended)* An original conveying apparatus as claimed in claim 1, wherein adjustment of the light amount from said light-emitting section by said adjustment means is also carried out immediately after a power supply to said original conveying apparatus has been turned on ~~and after a predetermined time period has passed after the original conveying apparatus has moved into a standby mode.~~

3. *(Original)* An original conveying apparatus as claimed in claim 1, wherein said volatile storage means comprises a RAM, and said nonvolatile storage means comprises an EEPROM.

4. *(Original)* An image forming apparatus having an original conveying apparatus as claimed in claim 1, for forming an image on a recording sheet based on an image on the original.

5. *(Currently Amended)* A method of adjusting a light amount of a light-emitting section of an original conveying apparatus comprising conveying means for conveying an original to an image

SN. 09/908,970

ATTORNEY DOCKET NO. CANO:032

reading section of an image forming apparatus, original detecting means comprising a light-emitting section, and a light-receiving section, adjustment means for adjusting a light amount from said light-emitting section, volatile storage means which permits electrical writing and erasure, for storing a correction value of the light amount adjusted by said adjustment means, and nonvolatile storage means which permits electrical writing and erasure, for storing the correction value, the method comprising the step of:

carrying out writing of the correction value only to said volatile storage means and not to said nonvolatile storage means when the correction value has not changed by at least a predetermined amount relative to a correction value before adjustment by said adjustment means,

wherein adjustment of the light amount from said light-emitting section by said adjustment means is carried out after a predetermined time period has passed after the original conveying apparatus has moved into a standby mode.

6. *(Currently Amended)* A method as claimed in claim 5, wherein adjustment of the light amount from said light-emitting section by said adjustment means is also carried out immediately after a power supply to said original conveying apparatus has been turned on ~~and after a predetermined time period has passed after the original conveying apparatus has moved into a standby mode.~~

7. *(Currently Amended)* A storage control device for controlling writing data relating to a correction value of a light amount from a light-emitting section of an image forming apparatus to a volatile first storage device and a nonvolatile second storage device of said image forming apparatus, wherein said light amount has been adjusted by adjustment means of said image forming apparatus, the storage control device comprising:

storage control means for inhibiting writing to said second storage device of the data relating to the correction value adjusted by said adjustment means as a result of adjustment of the light amount from said light-emitting section carried out by said adjustment means, when the data relating to the correction value adjusted by said adjustment means has not changed by at least a predetermined amount relative to data relating to a correction value already stored in said second storage device,

wherein adjustment of the light amount from said light-emitting section by said adjustment means is carried out after a predetermined time period has passed after the image forming apparatus has moved into a standby mode.

SN. 09/908,970

ATTORNEY DOCKET NO. CANO:032

8. *(Original)* A storage control device as claimed in claim 7, wherein said storage control means permits writing to said first storage device of the data relating to the correction value adjusted by said adjustment means each time adjustment of the light amount from said light-emitting section is carried out by said adjustment means.

9. *(Original)* A storage control device as claimed in claim 8, wherein said storage control means includes comparing means being responsive to adjustment of the light amount from said light-emitting section having been carried out by said adjustment means, for comparing the data relating to the correction value that has been adjusted by said adjustment means and written to said first storage device with the data relating to the correction value already written to said second storage device, and wherein said storage control means determines whether or not to inhibit writing to said second storage device of the data relating to the correction value adjusted by said adjustment means based on a comparison result from said comparing means.

10. *(Original)* A storage control device as claimed in claim 9, wherein said storage control means is responsive to a determination from the comparison result by said comparing means that the data relating to the correction value that has been adjusted by said adjustment means and written to said first storage device has changed by at least the predetermined amount relative to the data relating to the correction value already written to said second storage device, for permitting writing to said second storage device of the data relating to the correction value adjusted by said adjustment means.

11. *(Original)* A storage control device as claimed in claim 7, wherein said image forming apparatus includes an original conveying apparatus, and a sensor for detecting an original provided in said original conveying apparatus, said sensor having said light-emitting section, and wherein said adjustment means adjusts a light amount from said light-emitting section of said sensor.

12. *(Original)* A storage control device as claimed in claim 11, wherein adjustment of the light amount from said light-emitting section by said adjustment means is carried out immediately after a power supply to said original conveying apparatus has been turned on and after a predetermined time period has passed after said original conveying apparatus moved into a standby mode.

SN. 09/908,970

ATTORNEY DOCKET NO. CANO:032

13. (*Original*) A storage control device as claimed in claim 7, wherein said image forming apparatus includes an image forming section main body, and a sensor for detecting a sheet provided in said image forming section main body, said sensor having said light-emitting section, and wherein said adjustment means adjusts a light amount from said light-emitting section of said sensor.

14. (*Original*) A storage control device as claimed in claim 13, wherein adjustment of the light amount from said light-emitting section by said adjustment means is carried out immediately after a power supply to said image forming section main body has been turned on and after a predetermined time period has passed after said image forming section main body moved into a standby mode.

15. (*Original*) A storage control device as claimed in claim 7, wherein said image forming apparatus includes a sheet processing device, and a sensor for detecting a sheet provided in said sheet processing device, said sensor having said light-emitting section, and wherein said adjustment means adjusts a light amount from said light-emitting section of said sensor.

16. (*Original*) A storage control device as claimed in claim 15, wherein adjustment of the light amount from said light-emitting section by said adjustment means is carried out immediately after a power supply to said sheet processing device has been turned on and after a predetermined time period has passed after said sheet processing device moved into a standby mode.

17. (*Original*) A storage control device as claimed in claim 7, wherein said first storage device includes a RAM, and said second storage device includes an EEPROM.

18. (*Currently Amended*) A storage control method of controlling writing data relating to a correction value of a light amount from a light-emitting section of an image forming apparatus to a volatile first storage device and a nonvolatile second storage device of said image forming apparatus wherein said light amount has been adjusted by adjustment means of said image forming apparatus, the storage control method comprising:

a storage control step of inhibiting writing to said second storage device of the data relating to the correction value adjusted by said adjustment means as a result of adjustment of the light amount from said light-emitting section carried out by said adjustment means, when the

SN. 09/908,970

ATTORNEY DOCKET NO. CANO:032

data relating to the correction value adjusted by said adjustment means has not changed by at least a predetermined amount relative to data relating to a correction value already stored in said second storage device,

wherein adjustment of the light amount from said light-emitting section by said adjustment means is carried out after a predetermined time period has passed after the image forming apparatus has moved into a standby mode.

19. (*Currently Amended*) A computer-readable storage medium storing a program for causing a storage control device that controls writing data relating to a correction value of a light amount from a light-emitting section of an image forming apparatus to a volatile first storage device and a nonvolatile second storage device of said image forming apparatus, wherein said light amount has been adjusted by adjustment means of said image forming apparatus, the program comprising: to execute

a storage control step of inhibiting writing to said second storage device of the data relating to the correction value adjusted by said adjustment means as a result of adjustment of the light amount from said light-emitting section carried out by said adjustment means, when the data relating to the correction value adjusted by said adjustment means has not changed by at least a predetermined amount relative to data relating to a correction value already stored in said second storage device,

wherein adjustment of the light amount from said light-emitting section by said adjustment means is carried out after a predetermined time period has passed after the image forming apparatus has moved into a standby mode.

20-21. (*Canceled*)

22. (*New*) An original conveying apparatus comprising:

a conveying device that conveys an original to an image reading section of an image forming apparatus;

an original detecting sensor comprising a light-emitting section, and a light-receiving section;

an adjustment device that adjusts a light amount from said light-emitting section;

a volatile storage device that permits electrical writing and erasure, for storing a correction value of the light amount adjusted by said adjustment device;

SN. 09/908,970

ATTORNEY DOCKET NO. CANO:032

a nonvolatile storage device that permits electrical writing and erasure, for storing the correction value; and

a writing device that carries out writing of the correction value only to said volatile storage device and not to said nonvolatile storage device when the correction value has not changed by at least a predetermined amount relative to a correction value before adjustment by said adjustment device,

wherein said adjustment device does not adopt a new correction value obtained every time adjustment of the light amount is carried out, but adopts the correction value stored in said nonvolatile storage device to carry out the adjustment of the light amount when the new correction value obtained has not changed by at least a predetermined amount relative to the correction value before adjustment.